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AMENDMENTS TO THE CLAIMS

1-6. (Cancelled)

7. (Currently Amended) A remaining recordable time calculation apparatus for calculating a remaining recordable time of a recording medium, the recording medium containing one or more video streams and corresponding management information, and the one or more video streams being compressed when recorded on the recording medium, said remaining recordable time calculation apparatus comprising:

management data read means for reading, from the recording medium, a running time of the one or more video streams;

storage means for prestoring a fixed estimate error value and a fixed standard bit rate, the estimate error value estimating at least one of an estimate error occurring during compression of a video stream, and a size of an unrecordable area inherent in the recording medium, and the standard bit rate being a bit rate used in compressing a video stream to be recorded on the recording medium;

total time holding means for holding a total time period for which recording is possible on the recording medium, wherein the total time period for which recording is possible is obtained by first subtracting the estimate error value from a capacity of the recording medium and then by dividing the subtraction result by the standard bit rate; and

time calculation means for calculating the remaining recordable time by subtracting the running time of the one or more video streams read by said management data read means from the total time period for which recording is possible;

remaining recordable time display means for displaying a ratio of the remaining recordable time calculated by said time calculation means, to the total time period for which recording is possible in a graphical form;

instruction receiving means for receiving a user selection of a video stream out of the one or more video streams; and

running time display means for displaying the running time of the video stream instructed by said instruction receiving means,

wherein a display screen displayed by said remaining recordable time display means and a display screen displayed by said running time display means are switchable.

8. (Cancelled)

9. (Currently Amended) The remaining recordable time calculation apparatus of claim 7, ~~further comprising:~~
~~instruction receiving means for receiving a user selection of a video stream out of the one or more video streams; and~~
~~display means for displaying the remaining recordable time calculated by said time calculation means;~~
wherein said running time display means displays a ratio of the running time of the selected video stream to the total time period for which recording is possible in a graphical form.

10. (Currently Amended) The remaining recordable time calculation apparatus of claim 9, further comprising stream decoding means for decoding a compressed data of the video stream,
wherein said running time display means further displays an image of the video stream decoded by said stream decoding means.

11-12. (Cancelled)

13. (Previously Presented) The remaining recordable time calculation apparatus of claim 7, wherein the running time of the video stream is included in management information generated in accordance with a recording standard of the recording medium.

14-20. (Cancelled)

21. (Currently Amended) A remaining recordable time calculation apparatus for calculating a remaining recordable time of a recording medium, the recording medium containing one or more video streams and corresponding management information, and

the one or more video streams being compressed when recorded on the recording medium, said remaining recordable time calculation apparatus comprising:

a management data read unit operable to read, from the recording medium, a running time of the one or more video streams;

a storage unit operable to prestore a fixed estimate error value and a fixed standard bit rate, the estimate error value estimating at least one of an estimate error occurring during compression of a video stream, and a size of an unrecordable area inherent in the recording medium, and the standard bit rate being a bit rate used in compressing a video stream to be recorded on the recording medium;

a total time holding unit operable to hold a total time period for which recording is possible on the recording medium, wherein the total time period for which recording is possible is obtained by first subtracting the estimate error value from a capacity of the recording medium and then by dividing the subtraction result by the standard bit rate; and

a time calculation unit operable to calculate the remaining recordable time by subtracting the running time of the one or more video streams read by said management data read unit from the total time period for which recording is possible;

a remaining recordable time display unit operable to display a ratio of the remaining recordable time calculated by said time calculation unit, to the total time period for which recording is possible in a graphical form;

an instruction receiving unit operable to receive a user selection of a video stream out of the one or more video streams; and

a running time display unit operable to display the running time of the video stream instructed by said instruction receiving unit

wherein a display screen displayed by said remaining recordable time display unit and a display screen displayed by said running time display unit are switchable.

22. (Cancelled)

23. (Currently Amended) The remaining recordable time calculation apparatus of claim 21, ~~further comprising:~~

~~an instruction receiving unit operable to receive a user selection of a video stream out of the one or more video streams; and~~
~~a display unit operable to display the remaining recordable time calculated by said time calculation unit;~~
wherein said running time display unit is operable to display a ratio of the running time of the selected video stream to the total time period for which recording is possible in a graphical form.

24. (Currently Amended) The remaining recordable time calculation apparatus of claim 23, further comprising a stream decoding unit operable to decode a compressed data of the video stream,
wherein said running time display unit is further operable to display an image of the video stream decoded by said stream decoding unit.

25-26. (Cancelled)

27. (Previously Presented) The remaining recordable time calculation apparatus of claim 21, wherein the running time of the video stream is included in management information generated in accordance with a recording standard of the recording medium.

28. (New) The remaining recordable time calculation apparatus of claim 7, further comprising display location obtaining means for obtaining a display location of the screen displayed by said remaining recordable time display means.

29. (New) The remaining recordable time calculation apparatus of claim 21, further comprising a display location obtaining unit operable to obtain a display location of the screen displayed by said remaining recordable time display unit.